Algebra 3-4 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Per:\_\_\_\_\_

Unit 2 Day 1 PreTest Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

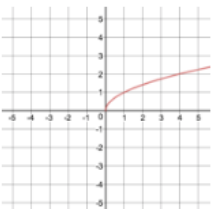
1. Describe the transformations of for the function below:

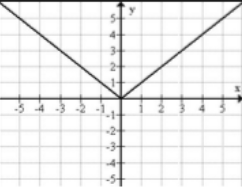
1. What is the vertex of ?
2. Write in vertex form.
3. Given the following parent functions, match the parent function with its graph.

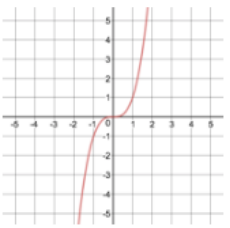
**Parent Functions:**

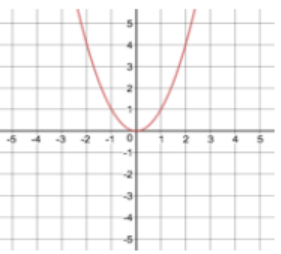
1. Cubic
2. Square Root
3. Absolute Value
4. Linear
5. Quadratic

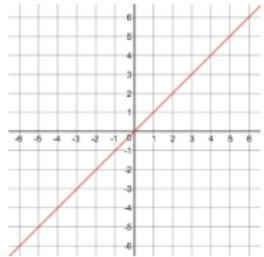
**Graphs:**

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**Graphing Linear Functions:**

Graph the lines y= 3x+1, y=5x+1, and y= -2x+3 on the axes below.

Describe how, when given an equation in “y=mx+b” form, you can draw an accurate. Be specific and detailed.

What is the difference between a positive and negative slope?

**Graphing Quadratic Functions:**

Graph the parabolas , , and on the axes below.



Describe what “adding 3” can do to the graph of a parabola. Be specific and detailed. In particular, describe the difference between “adding 3 inside the parentheses” and “adding 3 to the end of the equation.”